

CLAIMS:

1. A configuration for determining the position of a body along a movement coordinate, wherein the body is in the form of a magnetized encoder with two magnetic tracks extending, on one surface of the body, along the movement coordinate, at least essentially in parallel with one another, wherein, at specified intervals along the movement coordinate, a first of the magnetic tracks exhibits magnetized sections in which the magnetic north poles are aligned so as to be at least largely coincident in a magnetization direction that is essentially at right-angles to the surface of the body; and wherein, at intervals specified to coincide with the above-mentioned intervals along the movement coordinate, the second of the magnetic tracks exhibits magnetized sections in which the magnetic south poles are aligned so as to be at least largely coincident in the said magnetization direction, and wherein, in each case, a magnetized section of one of the magnetic tracks is located at least largely centrally in relation to a gap between two magnetized sections of the other magnetic track, with a magnetoresistive sensor, in the form of an angle sensor, which is arranged above the magnetic tracks, for determining the directions of magnetic fields brought about by the magnetized sections of the magnetic tracks in an area extending along the movement coordinate, essentially in parallel with the surface of the body.

2. A configuration as claimed in claim 1, characterized in that the specified intervals of the magnetized sections are identical on both magnetic tracks along the movement coordinate of the encoder over the entire extent of the magnetic tracks.

3. A configuration as claimed in claim 1 or 2, characterized in that the surface of the body is essentially planar in design, and the magnetic tracks are arranged essentially linearly on this surface.

4. A configuration as claimed in claim 1 or 2, characterized in that the surface of the body is essentially rotationally symmetrical in design, and the magnetic tracks are arranged on this surface so as to be essentially rotationally symmetrical.

5. A configuration as claimed in claim 4, characterized in that the body is at least virtually cylindrical in design, and the magnetic tracks are arranged on a lateral surface of the body.

5 6. A configuration as claimed in claim 4, characterized in that the body is at least virtually cylindrical in design, and the magnetic tracks are arranged concentrically in a circle on an end face of the body.

7. A configuration as claimed in claim 6, characterized in that the body is
10 designed as a hollow shaft, and the magnetic tracks are arranged concentrically in a circle on an end face of the hollow shaft.

8. A configuration as claimed in claim 6, characterized in that the body is
essentially rotationally symmetrical in design, with an essentially rotationally symmetrical,
15 disk-like shape, and the magnetic tracks are arranged on an end face of the disk-like shape concentrically in a circle.